

Solid Waste Management in New Hampshire

An Overview

Presented by
Mike Wimsatt, Director, Waste Management Division
NH Department of Environmental Services
to the
Environment & Agriculture Committee
of the New Hampshire Legislature
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Waste Management Division

**Mike Wimsatt -
Director**

Oil Remediation & Compliance

— Spill Response

— Complaint
Investigation

— Underground and
Aboveground
Storage Tanks

— Petroleum
Remediation

— Petroleum Funds

Hazardous Waste Remediation

— Federal (Defense)
Sites

— Superfund Sites

— State Sites

— Brownfields

— Site Investigation/
Remediation

— Groundwater
Remediation
Permitting

Hazardous Waste Management

— HW Compliance
Certification

— Technical Assist.

— Inspections

— Enforcement

— Permitting

— Used Oil Mgmt.

— HW Transporters

— Manifest
Tracking/ Fees

Solid Waste Management

— Permitting &
Design Review

— Inspections

— Enforcement

— Technical Assist.

— SW Operator
Training & Cert.

— FA / Grants Mgmt.

— Auto Salvage Yds.

— J-M Asbestos Sites

Solid Waste Management Program

Responsibilities

- Facility Permitting
- Engineering/Design Review
- Compliance Assurance
 - Education / Tech. Assist.
 - Facility Data Review
 - Financial Assurance
 - Facility Inspections
 - Enforcement
- Operator Training & Cert.
- Auto Salvage / Green Yards
- J-M Asbestos Site Mgmt.
- Grants Management



RSA 149-M

NH Solid Waste Mgmt. Act

- RSA 149-M:2 establishes 40% recycling goal

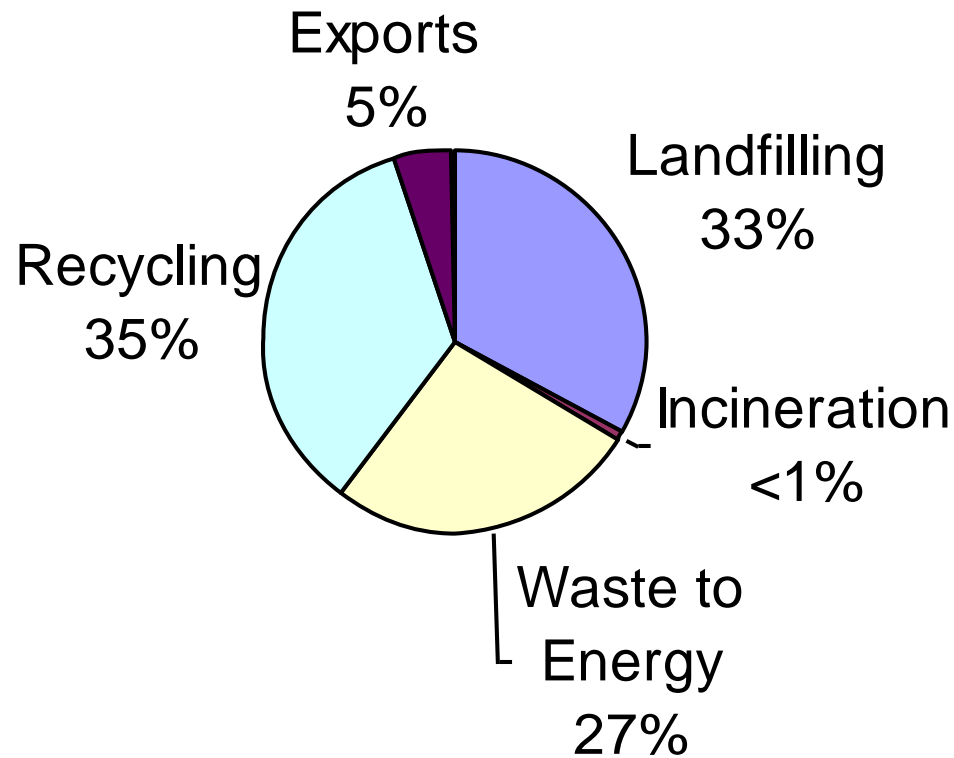
- Current rate 35% +/-*

- RSA 149-M:3--Hierarchy of Preference

1. Source reduction
2. Recycling and reuse
3. Composting
4. Waste to energy
5. Incineration without energy recovery
6. Landfilling



Destination of NH Generated MSW



Solid Waste Facilities Regulated

- 260+/- Operating SW Facilities
 - Transfer Stations / Recycling Centers
 - Municipal Solid Waste
 - Scrap Metal
 - Others
 - Processing / Treatment Facilities
 - Composting
 - Incinerators
 - Waste-to-Energy
 - Material Recovery (MRFs)
 - Medical Waste Treatment
 - Others
 - Landfills
- 150 +/- Auto Salvage Yards
- 360 +/- Asbestos Disposal Sites
- 290+/- Closed Unlined Landfills

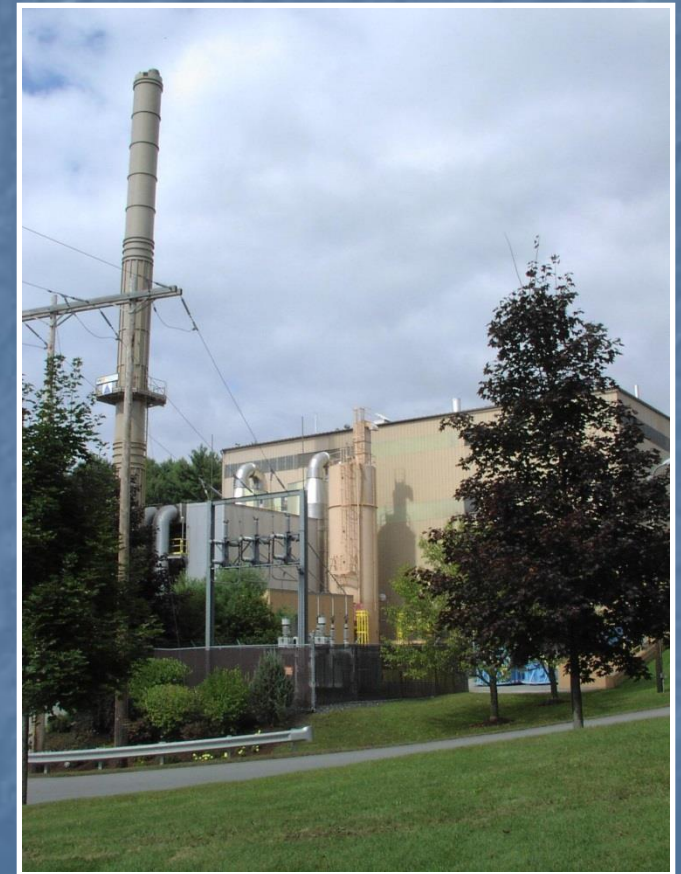


Permitting Activities

- Pursuant to RSA 149-M, DES regulates solid waste facilities through administration of a permit system
- Involves permitting & compliance assurance
- 3 permitting engineer positions, and 2 hydrogeologist positions
- Receive approx. 40 applications/year
- Currently have 35 active applications

Waste to Energy Facilities

- Wheelabrator – Claremont
 - Ceased operations Fall 2013
 - Maintained permits
- Wheelabrator – Concord
 - 575 ton/day
 - Utilizes Franklin Ash Landfill
- Pending Sale of Wheelabrator
 - Announced July 2014
 - Buyer: Energy Capital Partners
 - 4-6 months to complete transaction
 - WMI to supply with waste for 7 yrs
- Challenges to WtE Facilities
 - Domestic natural gas production has impacted power purchase contracts
 - Price competition with landfills



Landfills

- All unlined MSW landfills now closed and capped
- NH is a “RCRA Subtitle D Approved State”
- New landfills must be double-lined
- 6 operating lined MSW landfills
- 3 lined ash landfills*
- ~1.5 tons waste landfilled annually (NH + Imports)
- Permitted capacity adequate until 2022



New Hampshire's 6 Lined Landfills

(double lined with leachate collection/detection)

- **Bethlehem:** North Country Environmental Services
- **Conway:** Lower Mt. Washington Valley Secure Solid Waste Landfill
- **Lebanon** Regional Solid Waste Facility
- **Nashua:** Four Hills Landfill
- **Rochester:** TLR-III Refuse Disposal Facility
- **Success Township:** Mt. Carberry Landfill



Permitted Landfill Capacity

- Turnkey TLR III – Rochester
 - 750,000 tons landfilled in 2013
 - Estimated life to 2022
 - Potential for expansion
- NCES Landfill – Bethlehem
 - 305,000 tons landfilled in 2013
 - Estimated life through 2021
- AVR RDD Mt. Carberry – Success
 - 265,000 tons landfilled in 2013
 - Estimated life to 2048 with Phase III
 - Potential for expansion

Landfill Capacity

- NH generates approximately 1M tons/yr
- Generation rate will exceed disposal capacity if TLR III and NCES close in 2022
- Estimated shortfall between 5M and 15M tons over the next 20 year period based on current statistics
- TLR III may have room to expand
- NCES expected to close upon filling of Stage V
- Additional capacity likely to come from expansion of existing facilities
- No current applications for expansion

Recycling

- Solid waste is 80% recyclable
- Recycling will happen if it is easy and costs less
- Current state-wide rate is approximately 35%
- Single stream and PAYT are improving rates
- Markets for materials must be in place



Auto Salvage Yards

- 150 +/- yards in NH, handling thousands of vehicles annually --- 85% recyclable by weight
- DES "Green Yards Program"
 - BMP education & technical assistance
 - Multi-media compliance inspections
 - Enforcement
 - "Certified Green Yard" ... for "beyond compliance"
 - BMPs to be codified into General Permit rules
- Yards need annual Local License / DES provides technical assistance to towns

Waste Ban Review

- Untreated infectious waste (L)
- Contained gaseous waste (L)
- Liquid wastes (L)
- Wet cell batteries (L,I)
- Leaf or yard waste (L,I)
- Video-display devices, computers, non-mobile video display media recorders or players (L,I)
- Mercuric oxide batteries (L,I)

Waste Ban Review, cont'd

- Mercury-added products (L,I)
 - Fluorescent lamps, including CFLs
 - Thermometers
 - Thermostats
 - Tilt switches
 - Manometers
 - Button cell batteries
- Wood component of C&D debris (I)

Permitted Composting Facilities

- Lewis Farm – Concord
- Always Something Farm – Croydon
- Seacoast Farms – Fremont
- Moor Farm – North Hampton
- Town of Peterborough
- Organic Matters – Tamworth

Recent Rulemaking

Amendment/Readoption of Solid Waste Rules

- Effective date: July 1, 2014
- Rule amendments:
 - reduce paperwork
 - clarify certain existing requirements
 - provide cost savings
 - promote recycling
 - make better use of limited resources to run the program
 - address changes in statute, industry, and technology

Changes to SW Rules

- Simplified permit-by-notification procedures
- Financial Assurance requirements for LFs
- Eased regulation of land application of wood ash, exempting generators of <500 ton/yr
- Added compliance certification to Annual Facility Report (AFR)
- Reorganized and simplified Solid Waste Operator Certification Program

Future Rulemaking

- Financial Assurance for Corrective Action at Landfills
 - HB 1151 sought to establish a study committee
 - Bill sent to interim study
- Anticipate new rulemaking to establish this requirement
- General permits (auto salvage/crushers)
- Composting
- Contaminated soils

Thank you!

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